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## TECHNICAL POSSIBILITY OF THE REACTIONINTERACTION OF A USE-CASE-BASED FRAGRANCE SYSTEM

Axel Unger

*Bertrandt Ingenieurbüro GmbH*

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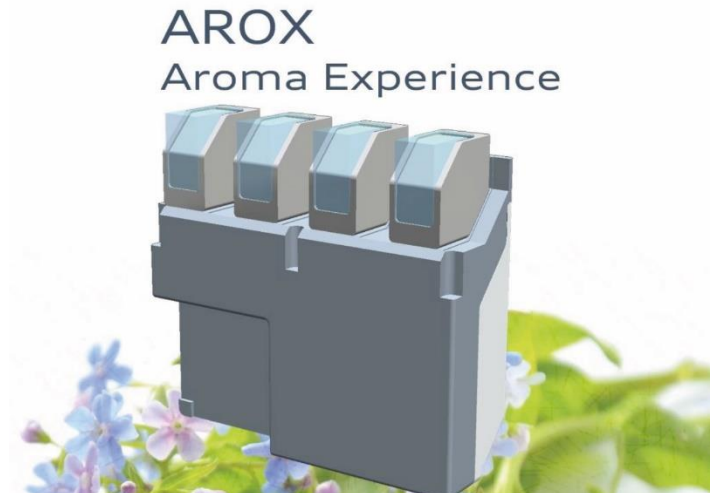
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## TECHNICAL POSSIBILITY OF THE REACTION/INTERACTION OF A USE-CASE-BASED FRAGRANCE SYSTEM TAKING INTO ACCOUNT THE DRIVING AND STEERING ACTIVITY OF THE OCCUPANT

### Initial situation:

Today's vehicles are equipped with simple scenting and/or ionisation devices.

These are mostly M-equipment and are currently switched on or off by the customer. This equipment is used as an air freshener. These scenting systems can contain use-case based scents.



Prototype with 4 cartridges (in development)

### Disadvantage:

The scenting system with use-case-based scents may contain scents for relaxation and/or recreation. These scents are not necessarily useful for the driver or it may distract him/her from driving and steering activities (for non-autonomous driving).

### Solution:

The core of the idea is the possibility of monitoring the driver in a vehicle with regard to driving and control activities; derived from this, a query on the status of the scenting system and a corresponding technical reaction for the driver's seat (see block diagram).

The scenting system should check whether use-case-based scents are installed (recognition by means of a chip on the bottle). The chip on the bottle should contain information to distinguish between relaxing and vitalising fragrances. This information is then to be evaluated and processed in the scenting system.

When the driver is driving or steering, the "relaxing scents" should not be used for the driver's seat. The vitalising scents can be used by the driver. In the case of a multi-zone scenting system, information can also be displayed to the respective occupant or scenting zone.

Implementation with a voice assistant and/or app is also possible.

The customer has the option to deactivate this interaction.

Furthermore, this interaction can also be coupled with an ioniser.

### Technical implementation:

Vehicle with the possibility of autonomous driving and an air quality system (preferably a fragrance system).

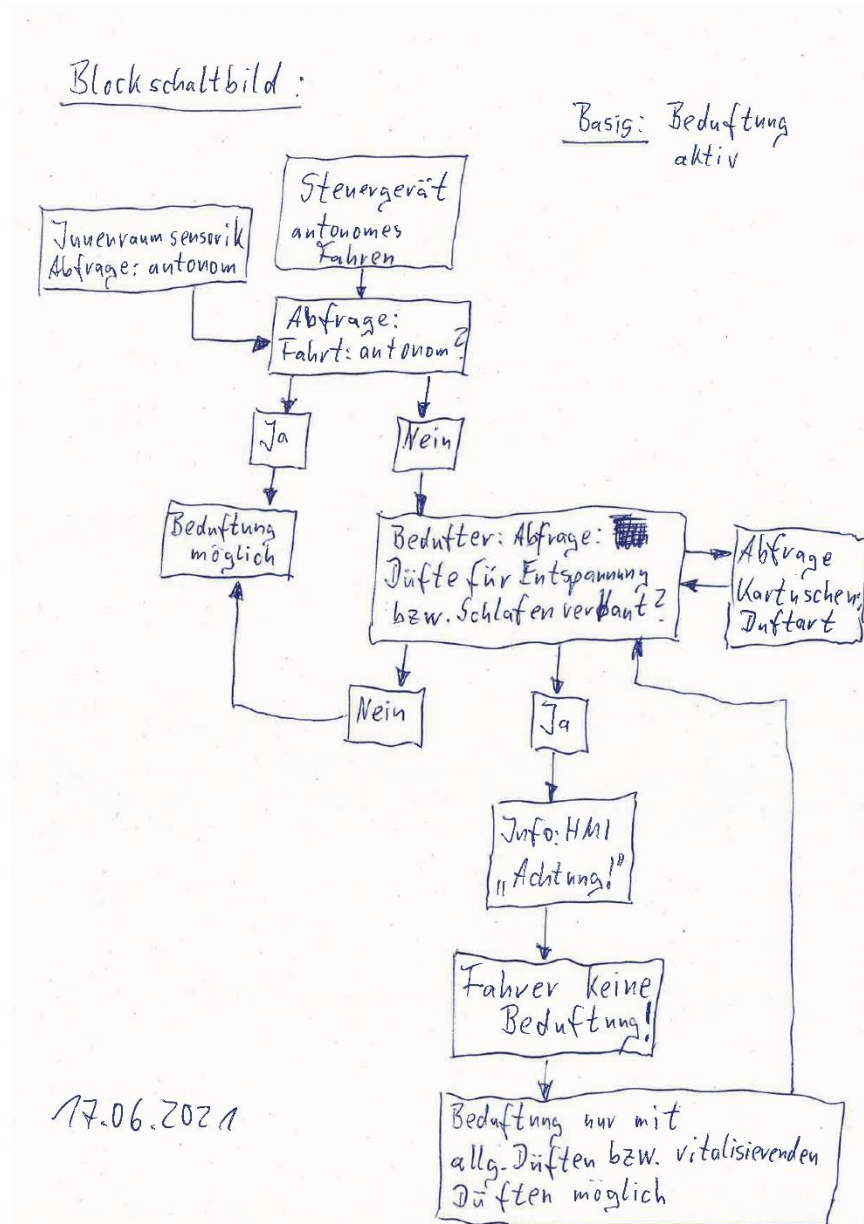
Corresponding control unit with corresponding intelligence/software.

Control and display unit for the user to receive the corresponding information.

### Advantages:

This intelligence is intended to be a safety device for the vehicle or for the driver.

This device is intended to prevent the customer from possibly falling asleep due to the scent and thus causing an accident.



Block diagram of scent system